



Water-Data Report 2008

07299890 Lelia Lake Creek below Bell Creek near Hedley, TX

Salt Fork Red Basin
Upper Salt Fork Red Subbasin

LOCATION.--Lat 34°56'08", long 100°41'46" referenced to North American Datum of 1927, Donley County, TX, Hydrologic Unit 11120201, on left downstream side of bridge of FM 2471, 1.0 mi downstream from Bell Creek, and 5.0 mi north of Hedley.

DRAINAGE AREA.--74.0 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Aug. 1964 to Sept. 1995 (miscellaneous measurements), Aug. 1997 to current year. Water-quality records: Specific Conductance data: Aug. 1997 to Sept. 2004. Water Temperature data: Aug. 1997 to Sept. 2004.

GAGE.--Water-stage recorder. Datum of gage is 2,408.56 ft above NGVD of 1929. Satellite telemeter at site.

REMARKS.--Records good except those for estimated daily discharges, which are poor. No known regulation. There are several small diversions upstream from the station for farm and ranch use. No flow at times. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 11	1300	478	7.13
Oct 11	1415	*680	*7.65

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.0	2.0	2.1	e2.1	2.1	2.6	2.6	2.0	1.1	0.43	e0.02	0.83
2	1.0	2.0	1.9	e2.1	2.3	2.7	2.6	1.9	1.1	0.42	e0.02	0.75
3	1.0	2.0	1.9	2.1	2.3	2.6	2.7	1.9	0.85	0.52	e0.02	0.80
4	1.0	2.1	1.9	2.2	2.3	2.6	2.6	2.0	0.63	0.70	e0.02	0.80
5	1.1	2.0	1.7	2.1	2.3	2.7	2.6	2.0	0.77	0.63	e0.02	0.76
6	4.8	2.0	1.7	2.1	2.2	2.6	2.6	2.4	0.71	0.29	e0.02	0.74
7	12	2.1	1.7	2.2	2.2	2.6	2.6	3.8	0.99	e0.29	e0.02	0.70
8	10	2.1	1.9	2.1	2.3	2.6	2.6	3.6	1.2	e0.20	e0.20	0.97
9	11	2.1	1.9	2.2	2.1	2.8	2.8	2.9	1.4	0.12	e0.30	1.1
10	11	2.1	2.0	2.2	2.2	2.7	3.2	2.4	1.2	0.19	e0.32	1.0
11	e210	2.2	3.4	2.2	2.2	2.8	2.6	2.1	0.83	0.16	e0.32	1.5
12	e40	2.1	2.4	2.3	2.2	2.8	2.6	2.1	e0.78	0.03	e0.33	3.0
13	e14	2.1	2.2	2.3	2.2	2.8	2.5	2.0	e0.74	0.13	e0.34	1.8
14	e5.5	2.0	2.2	2.4	2.2	2.8	2.5	2.0	0.72	0.36	e0.50	1.4
15	e5.0	2.0	2.2	e2.3	2.2	2.8	2.5	2.2	1.1	0.30	e1.5	1.2
16	e4.5	2.1	2.1	2.4	3.2	2.9	2.5	2.0	0.71	0.36	3.9	1.1
17	e4.0	2.1	2.1	2.2	3.0	3.9	2.5	1.9	0.69	0.24	2.6	1.1
18	e3.0	2.0	2.1	2.0	2.7	3.6	2.5	1.9	0.86	0.14	2.9	1.1
19	e2.5	2.0	2.0	2.0	2.6	3.1	2.5	1.7	1.0	0.11	1.9	1.1
20	e2.4	2.0	2.0	2.3	2.6	3.0	2.5	1.6	1.1	0.05	1.6	1.1
21	e2.3	2.0	2.0	2.3	2.5	2.9	2.4	1.5	0.89	0.03	1.4	1.0
22	e2.2	2.0	2.0	2.2	2.5	2.8	2.3	1.5	0.80	0.02	1.2	1.0
23	e2.1	2.0	2.1	2.1	2.5	2.8	3.7	1.4	0.86	0.02	1.00	0.99
24	e2.0	2.0	2.1	2.0	2.5	2.8	4.7	1.2	0.69	0.01	0.94	1.5
25	e2.1	2.0	2.2	2.4	2.5	2.8	2.9	1.3	0.61	0.01	0.78	2.1
26	e2.0	2.0	2.1	2.4	2.5	2.8	2.5	1.4	0.54	0.01	0.79	2.2
27	e2.1	2.0	e2.1	2.5	2.5	2.8	2.3	1.5	0.46	e0.01	0.78	2.1
28	e2.0	2.0	2.2	2.5	2.5	2.8	2.2	1.5	0.40	e0.03	0.76	2.1
29	e2.1	2.0	e2.1	2.5	2.5	2.9	2.1	1.4	0.45	0.05	0.83	2.1
30	2.0	1.9	e2.1	2.5	---	2.8	2.0	1.2	0.46	0.07	0.95	2.1
31	1.9	---	2.2	2.4	---	2.7	---	1.2	---	0.02	0.94	---
Total	367.6	61.0	64.6	69.6	69.9	87.9	79.2	59.5	24.64	5.95	27.22	40.04
Mean	11.9	2.03	2.08	2.25	2.41	2.84	2.64	1.92	0.82	0.19	0.88	1.33
Max	210	2.2	3.4	2.5	3.2	3.9	4.7	3.8	1.4	0.70	3.9	3.0
Min	1.0	1.9	1.7	2.0	2.1	2.6	2.0	1.2	0.40	0.01	0.02	0.70
Ac-ft	729	121	128	138	139	174	157	118	49	12	54	79

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2.85	2.62	2.89	2.84	3.16	5.49	4.01	3.23	3.19	1.32	1.18	1.15
Max	11.9	6.47	5.04	5.70	7.73	13.5	7.48	7.64	9.67	7.75	4.39	4.11
(WY)	(2008)	(2002)	(1998)	(1998)	(1998)	(1998)	(1998)	(2007)	(2003)	(2002)	(2006)	(1997)
Min	0.80	1.25	1.43	0.98	1.25	0.85	1.55	0.85	0.22	0.00	0.20	0.28
(WY)	(2002)	(2000)	(2006)	(2006)	(2002)	(2002)	(2006)	(2003)	(2006)	(2006)	(2007)	(2000)

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	Calendar Year 2007	Water Year 2008	Water Years 1997 - 2008	
Annual total	1,585.36	957.15		
Annual mean	4.34	2.62	2.78	
Highest annual mean			4.57	1998
Lowest annual mean			1.40	2006
Highest daily mean	e210 Oct 11	e210 Oct 11	e210 Oct 11	2007
Lowest daily mean	0.00 Aug 12	0.01 Jul 24	0.00 Aug 3,	2001
Annual seven-day minimum	0.00 Aug 11	0.02 Jul 21	0.00 Aug 3,	2001
Maximum peak flow		680 Oct 11	1,190 Jul 5,	2002
Maximum peak stage		7.65 Oct 11	a8.59 Jul 5,	2002
Annual runoff (ac-ft)	3,140	1,900	2,020	
10 percent exceeds	6.6	2.8	4.8	
50 percent exceeds	2.3	2.1	1.8	
90 percent exceeds	0.10	0.34	0.32	

^a From floodmark.

e Estimated

